

THE TECH

VOL. XXVIII. No. 47

BOSTON, MASS., FRIDAY, FEBRUARY 19, 1909

PRICE THREE CENTS

CROSS COUNTRY PRACTICE BEGINS

**Easy Runs Will Be Taken
Every Week From
Gymnasium**

NEW DISTANCE RACE

**Spring Handicap to be Held Over
Technology Course—Many
Old Men Back**

Cross country work for the present spring season is to be taken up immediately in real earnest. Light training for the distance and cross country men will begin at the Gym Saturday afternoon at 3 P. M., and from then on light work will be done on two or three days of each week.

The plan of Coach Kanley is to develop any latent running ability at the Institute and every man, whether he has ever run before or not has been requested to report on Saturday. The distance will be very short and run at an easy jog. As soon as the ground is in good shape the weekly Hare and Hound runs will be resumed but at present the runs will start from the Gym.

In order to give the men as much actual experience in the running of races as possible three cross country races will be held this spring. The first of the runs, the annual Inter-course run comes on April 3. The second will be run two weeks later. It will be called the Spring Handicap cross country race and after this year it will become an annual event. It is to be run over the Technology course.

The third of these contests, the 1912-1911 cross country run will come on April 24 and will be held under the same rules as prevailed last year. Any number of men can compete but only the first six from each class will score. The first six men of the winning class receive class numerals.

Work for the weight men will start as soon as the snow leaves the ground on the field in front of the Lowell building as in previous years. Their work will come on Tuesdays and Thursdays so as not to interfere with the cross country work which will be on Mondays, Wednesdays and Saturdays.

Special training for the relay men and track men who will run in the dual meet with Brown and at the Intercollegiates will start at the field on March 15. The meet with Brown is at Providence this year and comes on May 8. The N. E. I. A. A. falls on May 21 and 22; the I. C. A. A. comes one week later.

SEMINARS TO BE HELD

**Prof. Walker and Dr. Lewis to Hold
Chemical Discussion**

Professor C. H. Walker is to give a seminar during the coming term on Chemical Engineering, giving special consideration to the principles on which the more important mechanical operation involved in the chemical manufacturing industries depend, such as drying and filtration by centrifugal force, together with a study of the types of apparatus available for such operations, and the kind of work for which each is best adapted. The design and construction of chemical plants are considered with special reference to the chemical resistance of the materials employed. The discussions are held at 8 o'clock Friday mornings, beginning Feb. 19.

Dr. W. K. Lewis is to give a seminar on "Problems in Industrial Chemistry, considered from the point of view of the Phase Rule." The course is intended to show students how theoretical knowledge can be supplied to the solution of problems in industrial work and consists of informal discussions. The seminar is given Wed. mornings at 8 A. M., beginning Feb. 17.

PROFESSORS BREED AND ALLEN SPEAK

**Expert Testimony the Topic
of Addresses at C. E.
Society**

RESOLUTIONS PREPARED

**In Memory of Paul H. Block a
Member of Society—Large
Number Present**

Before 87 members of the Civil Engineering Society Wednesday evening Professors Breed and Allen of the civil engineering department spoke on expert testimony and some of their experiences on the witness stand.

The meeting opened with the reading of a resolution in memory of Paul H. Block 1909, who died December 4, 1908. After more or less routine work had been done, a committee was appointed to take charge of the society's heading in Technique 1910.

Professor Breed then took the floor. He began by saying that every engineer would sooner or later be called upon either to testify in court or to prepare plans and data for his superior to use in law work. He then described the court room as it is usually arranged, and the procedure up to the time when the engineer as an expert is called to the stand. Witnesses are divided into two classes, ordinary and expert. The former remain outside the rail, and in general testify to facts only, usually those of which they know from the perception of their senses. The latter testify to scientific facts and give their opinion freely. An expert is a man who has made special study of the subject under consideration, with or without practical experience, or has had opportunities for observation of it in his personal practice. Any man is considered an expert in his own line of work, and may be in allied lines. Expert evidence is usually necessary for the jury to decide any question not a matter of common knowledge.

From this he went on to speak of the testimony itself. He advised that the witness should know as well as possible both the case and the court, and that he should keep close control of himself. Experts may often be divided into two classes, honest and dishonest, but as he said, the latter are usually short lived and in engineering especially it is advisable in a business way as well as morally to stick to the facts and be as nearly as possible a dictionary of the subject under discussion just as the judge is of the law. If a man feels that he cannot truthfully support the side that calls him in, he should resign from it before the case gets to court. He has a right to expect an expert's fee for his work, as it requires careful preparation.

In preparation of the case, all the facts should be carefully considered, and the witness should form his opinion only after discussing them with the attorney who has called him in. Always use the original notes in court, and be sure of all figures presented. Test the tape used in filed work. Above all things make the testimony simple so the jurymen can understand it. They are much more likely to be impressed by something simple which they understand thoroughly than by any amount of scientific truth told in long technical words that they have never heard before. Photographs, plans and sometimes even models are likely to be very useful aids, both in preparation and on the stand. The ability to write a good report is indispensable.

Testimony should always be as concise and clear as possible, consistent with completeness, and each statement should answer the question asked and nothing else. The witness should not feel afraid to give facts adverse to his side, as a jury will always give more attention to a man who is frank and open than to one who seems inclined to

(Continued on page 3.)

INSTITUTE FIVE TO MEET DARTMOUTH

**Basketball Contest With the
Hanover Team Expected
To Be Close**

1911 TO PLAY 1912

**Second Game of Class Series Will
Be Played Between Halves
of Varsity Game**

Technology and Dartmouth will meet in basketball for the second time this season in the Garrison St. gym at 8 o'clock. With one victory over the green scored on the Hanover floor by the small margin of four points, the Tech five will be up against a harder proposition than they encountered in the first game of their season. The score was 26 to 22 on Dec. 12, most of the points being scored in the first half. Six goals from fouls by Captain P. M. Wentworth of Tech against two by Brady of Dartmouth were enough to give a victory to the red and grey, the number of baskets from the floor scored by each team being the same.

T. Avery, Dartmouth's star left guard will probably play an important part in the game tonight, while Brady's eye for baskets has improved as the season progressed.

T. B. Parker, center for M. I. T. and one of the best men at shooting baskets now playing varsity basketball, has lost some of the snappiness exhibited in his first games; hard rubs in several consecutive games have begun to show their effects on the Institute star. Captain P. M. Wentworth, 1909 and C. R. Lord, 1910 are in excellent form for the coming contest.

The following men will play tonight. TECHNOLOGY: Wentworth 1909 lg.; Bennis 1912, Taite r.g.; Parker 1911, c.; Lord 1910, lf.; Hargraves 1910, r.f. DARTMOUTH: Brady, lf.; Buck, r.f.; Gibson, Hedge, c.; Avery, lg.; Mul-len, r.g.

In the second game of the Technology class basketball, championship series 1911 will meet 1912, between the halves of the varsity team's game with Dartmouth.

With one victory over the entering class, the sophomores will play with a crippled team, two of their men being ill. Livingston will be unable to enter the game, and it is doubtful whether Stevens is well enough to last for any time in the contest which promises to be one of the closest on record. C. H. Harrington and D. F. O'Neill, star full-back on the class football team will fill the vacatee positions.

The Freshman five will be strengthened by the addition of A. F. Kenrick substitute on the varsity team, and both Ruby and Stone are in prime condition. 1911, Schatz, r.f.; Williams, lf.; O'Neill, lf.; Harrington, c.; MacPherson, r.b.; Metcalf, lb.

1912, Stone, lb.; Cherry, r.b.; Kenrick, r.b.; Ruby, c.; Albee, lf.; Farwell, r.f.; Riddell, r.f.

1910 CLASS PICTURE

Attention is called to the fact that every member of the class of 1910 is expected on Roger's steps at one o'clock today so that a picture of the entire class can be taken for the Technique. This is the only chance that the class will have to get their pictures taken in a group as a class of the Institute so that it is up to everyone to be there and to be there on time.

\$5.00 PRIZE OFFERED

The Musical Clubs offer \$500 (five dollars) for the best Musical Clubs Drawing. This is to be a full page drawing for Technique and is to head the Association of Musical Clubs section. The competition will close Tuesday, February 23rd. This should be ample time as Monday is a holiday.

DEMOCRACY TOPIC OF DR. FLEISCHER

**Will Address Gathering in
Union This Evening
At Eight**

SEDGWICK NEXT WEEK

**Students Requested to be Careful
About the Refreshments
By Committee**

Rabbi Fleischer of Temple Israel will speak at the Union night entertainment tonight at 7.45. His subject will be "Democracy". Dr. Fleischer is well known as a lecturer in Boston. Last year he delivered a very valuable and interesting address to the Architectural Society on Jewish architecture. His public-spiritedness is shown by the eminent manner in which he has served the city as a member of the school committee.

As usual, a large attendance will be expected by the management and will be provided for. However, if the first men to enter the refreshment room insist on taking twice the number of sandwiches coming to them for the nominal sum charged, there will be a scarcity of eatables when the other fellows get in. This plan of "pay your money and take your choice" has been somewhat abused.

Prof. W. T. Sedgwick will speak next week, probably on public health and sanitation.

E. H. S. CLUB DINES

Last night in the small dining-room of the Union thirty English High School graduates sat down to dinner. They had as their guests of honor James A. Beatley and Charles P. Lebon, both masters at the English High.

Harold L. Lang 1909 acted as toast-master and called the meeting to order. The meeting was enlivened by the singing of songs between the speeches and business. Mr. Beatley was the first speaker introduced by Lang and he kept the E. H. S. men convulsed in laughter by an imitation of Mr. Dooley. Mr. Lebon, the next speaker introduced, after a few slaps at the preceding speaker, told about a few of the things for which the United States is in debt to France.

The next speaker Sidney A. Malcolm 1909 brought to light the fact that the book of the show has been written by an E. H. S. man, also that the business manager is a graduate of the same school, that lyrics and music have been written by E. H. S. men and that the Blue and Blue is also well represented among the principals and chorus.

After Malcolm's talk the club proceeded to ballot for officers, electing the following men:—Pres., Sidney A. Malcolm 1909; V. Pres., Harold L. Lang 1909; Sec.-Treas., Carl J. Sittinger 1910; Executive Committee:—J. Devlin 1911 and H. D. Kemp 1912.

The pictures of ancient and modern brickwork on exhibition in the Department of Architecture were presented by Messrs. Fiske and Co., Inc., New York. The exhibit consists of pictures of 16th century brickwork in Persia, and bricks in use in ancient Rome, with examples of the modern use of bricks in the construction of residences and of business buildings.

CALENDAR

Friday, Feb. 19.

- 1:00 P. M. Junior Class picture on Rogers steps.
- 7:00 P. M. Musical Clubs at North Station.
- 8:00 P. M. Friday Evening Entertainment in Union.
- 8:00 P. M. Dartmouth vs. Tech at Gym.
- 8:00 P. M. Military Ball at Howe Hall.

THE TECH

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Subscription - \$1.50 per year in advance.
Single Copies 3 Cents.

Printed by Old Colony Press, Boston.

Friday, February 19, 1909.

Juniors at Rogers steps this noon

Dartmouth at the Gym tonight. There were more men from Medford at the Tufts game last week than from the Institute and they outcheered us at every point. Might that not have been a factor in the result?

Some men need to be reminded that it is the bulletin-board committee that has the right to remove posters from the boards, and not any one who sees a poster that would look good over his shaving stand.

Technique is set down upon its title page as being "published by the junior class of the Massachusetts Institute of Technology." If you are a junior, have you done your share? This work is too often left entirely to the editors. You can sit down and dash off a half dozen grinds, draw a heading or two, or compose a class history much easier than an editor who is already working overtime to make good what you and your neighbors have left undone. It's nice to say after the annual comes out "Best Technique ever published, and we did it, the class of 1910"; but if you don't wish to be a hypocrite you'll get busy now and do your share before it is too late.

Pennsylvania seems to be up against it in the athletic line. Coach Mike Murphy has written a letter to The Pennsylvanian setting forth the facts as to the poor support given by the students and asking that something be done.

Technology hasn't need of that this year, but The Pennsylvanian's editorial comment on the letter so vitally touches the truth as to the spirit shown in most American colleges, even at the Institute, that The Tech takes the liberty of quoting.

"Too many men will not do anything unless they are assured they will get something out of it. It is sickening. There is too much sitting around the fire and indulging in 'pipe dreams', as Mike Murphy aptly puts it. The men who do things . . . are not the men who criticize what others are attempting to do. They are too busy doing their duty and have no time to find fault."

DR. PRITCHETT PRAISED

In a recent number of the Journal of Education attention was called to the fact that Dr. Henry S. Pritchett resigned the presidency of the Institute in order that he might accept the direction of Carnegie's great work for the relief of college professors and other leading educators. In this position the Journal says that Dr. Pritchett's wisdom is modifying all the principles and practices of practically every college and university in the country, and that in time when his work has become sufficiently developed it will present a story the like of which can be written of no other man in educational service today.

RESOLUTIONS

Whereas God in his wisdom has seen fit to remove by death a member of this society, Paul Henry Block, and Whereas we sincerely mourn the loss of a friend and fellow-student be it Resolved that the society extend to his family its heartfelt sympathy in their bereavement and

Resolved that a copy of these resolutions be sent to the family and be it further

Resolved that these resolutions be published in The Tech and spread upon the minutes of this society.

Signed,

L. J. TOWNE,
J. M. FITZWATER,
For the Civil Engineering Society.

1912 STRENGTH TESTS

After several weeks of work the statistics of the freshman class have been compiled and from these statistics the following men are found to be the strong men of the class. Every strength test and measurement counts so many points and these are then added up to make the total. C. F. Higgins of Worcester is the strong man of the class having 865 points out of a possible 1000 to his credit. J. L. Bray of Boston is second with 801 points while J. E. Whittlesy of West Newton is close up with 800 points. R. M. White of Taunton is fourth with 798 and Harlow of Cambridge is fifth with 777. The next ten men in order are H. S. Benson, 766; J. Becker, Jr., 758; R. P. Root, 755; J. W. Tarrill, Jr., 753; T. C. Fisher, 745; E. W. Richardson, 739; W. H. Baxter, 714; S. W. Selfridge, 724; J. W. Raymond, 723; and C. A. Dwyer, 718.

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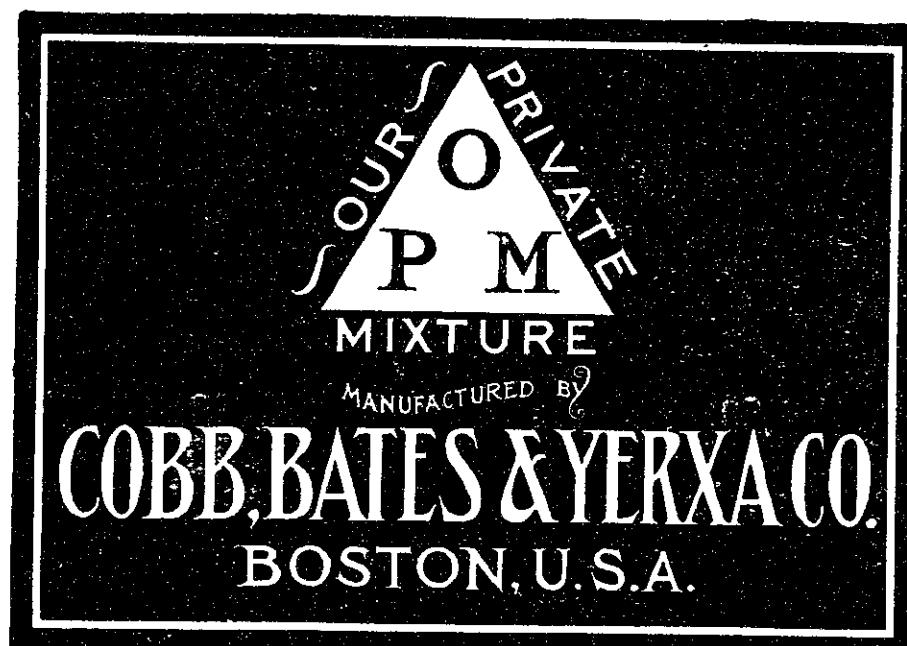


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PROFESSORS SPEAK

(Continued from page 1.)

warp his judgment in the effort to favor his side. Dignity is the best weapon to use against browbeating, and a request to repeat any question often changes it from bright to ridiculous. Never should the witness let the opposing attorney get him "on the run" as if he hurries over questions he is likely to find himself facing questions which he cannot answer without hurting himself or his side, but might have avoided had he not rushed blindly ahead. A man's own attorney can usually give him points on his opponent's methods. It is a good plan always to look the questioner in the eye. Exhibits should be left in court until the case is decided.

1912 CROSS COUNTRY

Every man in the class of 1912 who ever ran or thought of running is requested to repeat at the Gym at 2:45 P. M. on Saturday to go out on a short practice run in preparation for the inter-class cross-country run which comes in the middle of April. In order that the freshman may make a good showing against the sophomores it is necessary that everyone that can run should report for practice on Saturday.

E. E. SOCIETY DINNER

Electricals Second Dinner to be
Held in Union Tuesday

The Electrical Engineering Society will hold its second dinner of the year next Tuesday evening, Feb. 23, at the Union. Invitations have been sent to the faculty and instructing staff of the electrical department, and a full attendance of the members is expected. Mr. L. L. Elden, Superintendent of the Electrical Engineering Department of the Edison Electric Illuminating Company of Boston, will address the Society on some interesting features of the Edison Company's generating and distribution systems. The talk will be illustrated with a large number of lantern slides. Dinner will be served at 6.30 p.m.

INSTRUCTORS RESIGNS

C. H. Porter Leaves Electrical
Engineering Department.

Mr. Charles H. Porter, instructor in Electrical Engineering, has resigned from the Institute to accept an executive position with William Filene's Sons and Company of Boston. Mr. Porter graduated from the Institute in Course VI in 1903, having previously received the degree of A. B. at Brown University. After spending a year with the Chase-Shawmut Company he came to the Institute as Instructor, and has remained here continuously since that time. His work has been intimately associated with that of Professor Clifford, and he is responsible for the present system of problem work in use in the Electrical Engineering Department. Mr. Porter has already begun his new work.

1911 CROSS COUNTRY

Regular work for the 1911 cross country squad will begin Feb. 24. There will be regular runs from the Gym. at 4 P. M. on Monday and Wednesday, and at 3 P. M. on Saturday. The runs will be short at first and every 1911 man who can run should come out and try for the team. The annual Freshman Sophomore cross country race occurs in April and members of the winning team receive their numerals.

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83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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NOTICES

Following men must report at North Station at 7 tonight:

Brush, Caldwell, Champagne, Comstock, Crowley, Fauna, Fox, Gordon, Humphrey, Jenkins, Kerr, Maglott, Mylchreest, Odell, Shaffer, Stewart, Trevithick, Tuller, Wrester, Young.

NOTICE.—A ring has been found and left at the bursar's office.

SLIDE RULE has been found. Inquire at Bursar's Office.

MUSICAL CLUBS—Meet at Marceau's on Sat. at 1 P. M. in dress suits.

MUSICAL CLUBS—Meet at North Station at 7 P. M. Friday in dress suits.

CROSS-COUNTRY MEN should report at Gym for the first practice run on Sat. at 2:45 P. M.

HOCKEY TEAM.—Picture at Notman's on Park street Saturday at 1 o'clock sharp.

1910 Answers to questions for Technique must be in at the cage Saturday. Blanks can be had at the cage.

1912 CROSS-COUNTRY MEN are requested to report at the Gym Saturday in order to start on a short run at 3 P. M.

ORCHESTRA.—A call for candidates has been issued by the M. I. T. Orchestra. There are a number of changes soon to be made, and more men are desired to try for the new positions.

Following men are to meet at the North Station at 7 P. M.: Richardson, Northrop, Davis, Baxter, Watson, Desmont, Taylor, Applequist, Dauser, Trevithick, Wengert, Shaw, Partridge.

TECH SHOW.—Rehearsals will be held as follows:—Monday, Wednesday, and Friday for the chorus and dancers; Tuesday, Thursday, and Saturday for principals. All rehearsals to be held at 4.15 in the dining room of the Union.

Subscriptions to the Tech for the remainder of the year for sale at the Tech office, 30 C. Price, \$1.00.

FACULTY NOTICES

MEN required to repeat the second term of First Year English—who have come to 11 Rogers, Friday, February 19, at 4 o'clock.

HISTORY OF CHEMISTRY—The next exercise in History of Chemistry will be held at 4 P. M. Thursday, Feb. 18, in 24 Walker.

COSMIC PHYSICS—Attention of Students is called to Prof. Lowell's course in Cosmic Physics, for details of which see bulletins.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

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